ABSTRACT

In the present invention, BMAL1, BPL1, KIAA1491 complete (SEQ ID NO: 1), and KIAA0596CT (SEQ ID NO:2), have a function for interacting with JNK3, wherein these peptides, as well as peptides derived therefrom can be used to inhibit c-Jun from being phosphorylated and exhibiting its functions (such as transcription activation activity). Inhibition of the phosphorylation of c-Jun suppresses apoptosis, such as nerve cell apoptosis. Thus, the present invention also provides a drug, a pharmaceutical composition and a method for use in preventing and/or treating a neurodegenerative disease (such as polyglutamine disease and Alzheimer's disease).